

PATENT ABSTRACTS OF JAPAN

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(54) DISCHARGE LAMP LIGHTING DEVICE AND LIGHTING SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To prevent the life of a discharge lamp from being shortened.

SOLUTION: Field effect transistors Q1, Q2 are alternately turned on and off, the direct current of a D.C. power supply part 6 is converted into a high-frequency wave by an inverter circuit 11, fluorescent lamps FL1, FL2 are started and lit, and the fluorescent lamps FL1, FL2 are lit by equalizing currents by a balancer L2. A rectangular wave voltage is generated in the field effect transistors Q2 of the inverter circuit 11, and formed into a differential voltage by a capacitor C2, but its peak voltage is restrained by an inductor L3, so that preheating amounts for filaments FL1a, FL1b, FL2a, FL2b are not reduced. Since the peak voltage does not rise excessively high and an end glow is prevented from occurring in the fluorescent lamps FL1, FL2, the lives of the fluorescent lamps FL1, FL2 can be prevented from being shortened.

